

For use with T. I. Mech Pack Carrier:

- BREADBOARD AND TEST PANEL • 8089 SERIES
- 8076-42 SERIES BREADBOARD ASSEMBLY
- 8104 SERIES TEST SOCKET

DATA SHEET

AUGAT INC.
33 PERRY AVE., ATTLEBORO, MASS.

364B
Supplements
CAT. 364
•
Supersedes
Data
Sheet
565

BREADBOARD AND TEST PANEL

for use with T. I. Mech Pack Carrier

Part No. 8089-34G1R

The Augat 24 Pattern Test and Breadboard Panel provides the test and circuit design engineer with the ultimate in testing and breadboarding. Texas Instruments Mech Pack Connectors are incorporated as an integral part of its construction, thus eliminating the necessity of trimming the integrated circuit out of the carrier. When used in conjunction with the 8076-12 Series of solderless jumper interconnections, testing and breadboarding may be completed in optimum time. The 8076-42 SERIES single pattern unit, used for stacking, affords still further flexibility. Bus bars with two vertical contact assemblies adjacent to each pattern provide common power and ground.

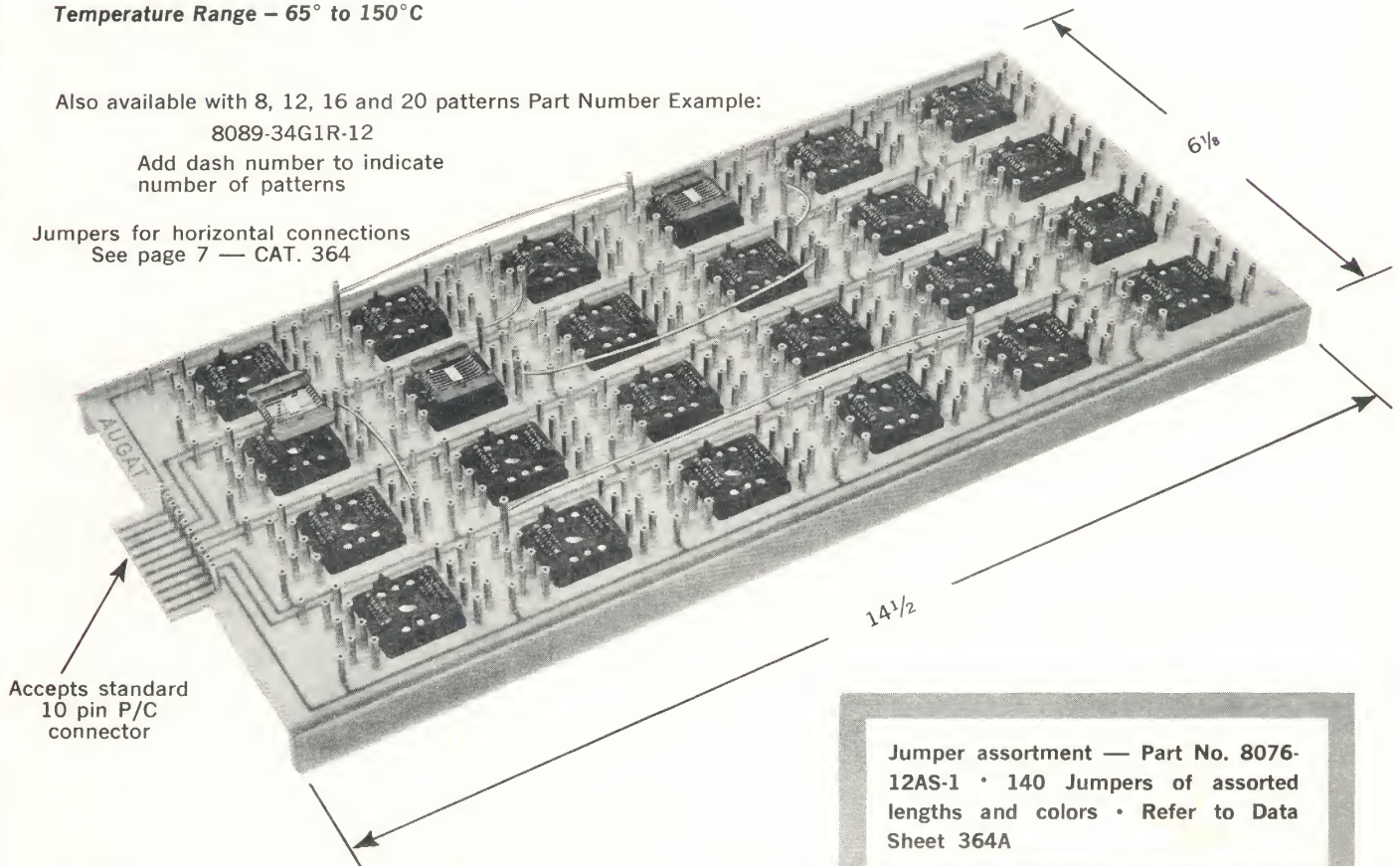
Temperature Range — 65° to 150°C

Also available with 8, 12, 16 and 20 patterns Part Number Example:

8089-34G1R-12

Add dash number to indicate
number of patterns

Jumpers for horizontal connections
See page 7 — CAT. 364



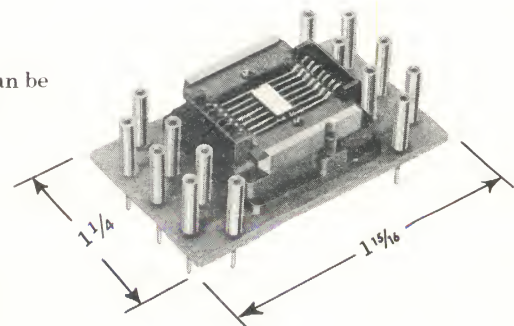
Part No. 8076-42G1

**8076-42 SERIES
BREADBOARD ASSEMBLY**
for use with T. I. Mech Pack Carrier

The 8076-42 SERIES is a single pattern breadboard assembly that can be used individually or in conjunction with the 24 Pattern Panel illustrated above. Units may be stacked vertically through the use of adaptors, spacers, and jumpers illustrated on Page 7 of Catalog 364.

Temperature Range — 65° to 150°C

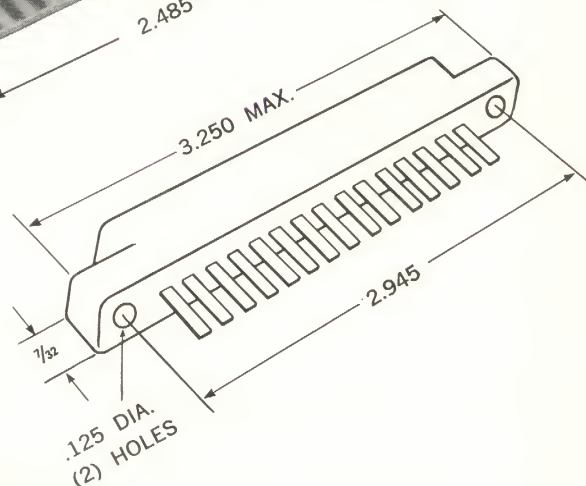
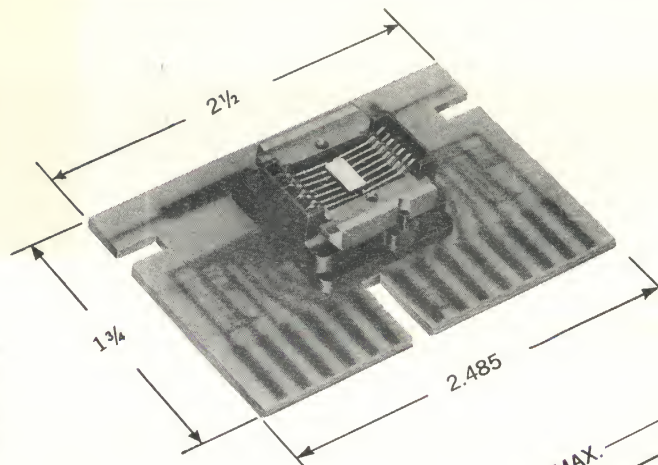
• MATERIALS SEE REVERSE SIDE



ELECTRONIC COMPONENTS AND HARDWARE

8104 SERIES TEST SOCKET
for use with T. I. Mech Pack Carrier
Temperature Range - 65° to 150°C

The 8104 SERIES Test Socket combines a Texas Instruments Mech Pack Connector soldered to a polarized printed circuit board. The printed circuit board may be plugged into a standard fifteen-pin connector for testing. It is not necessary to trim the integrated circuit out of the carrier. Available with or without polarized connector.



PART NUMBERS

PART NO.	DESCRIPTION
8104-1G9	WITH CONNECTOR
8104-1G8	WITHOUT CONNECTOR
8075-8P1-9	CONNECTOR ONLY

MATERIALS

PRINTED CIRCUIT BOARD — 1/16 thick glass epoxy, NEMA grade G-11, copper circuitry, gold over nickel plated

VERTICAL CONTACT ASSEMBLY (N/A 8104 SERIES)

Female contact — Beryllium copper, gold over nickel plated
Terminal Sleeve — Brass, gold over nickel plated

T. I. MECH PACK CONNECTOR

Body material — glass filled alkyd
Contacts — gold plated beryllium copper

For complete selection of testing and breadboard socket devices request Catalog 364

For testing and breadboarding
plug-in flatpack integrated circuits

- BREADBOARD AND TEST PANELS
- BREADBOARD ASSEMBLIES
- TEST SOCKETS

DATA SHEET

364C
Supplements
CAT. 364

AUGAT

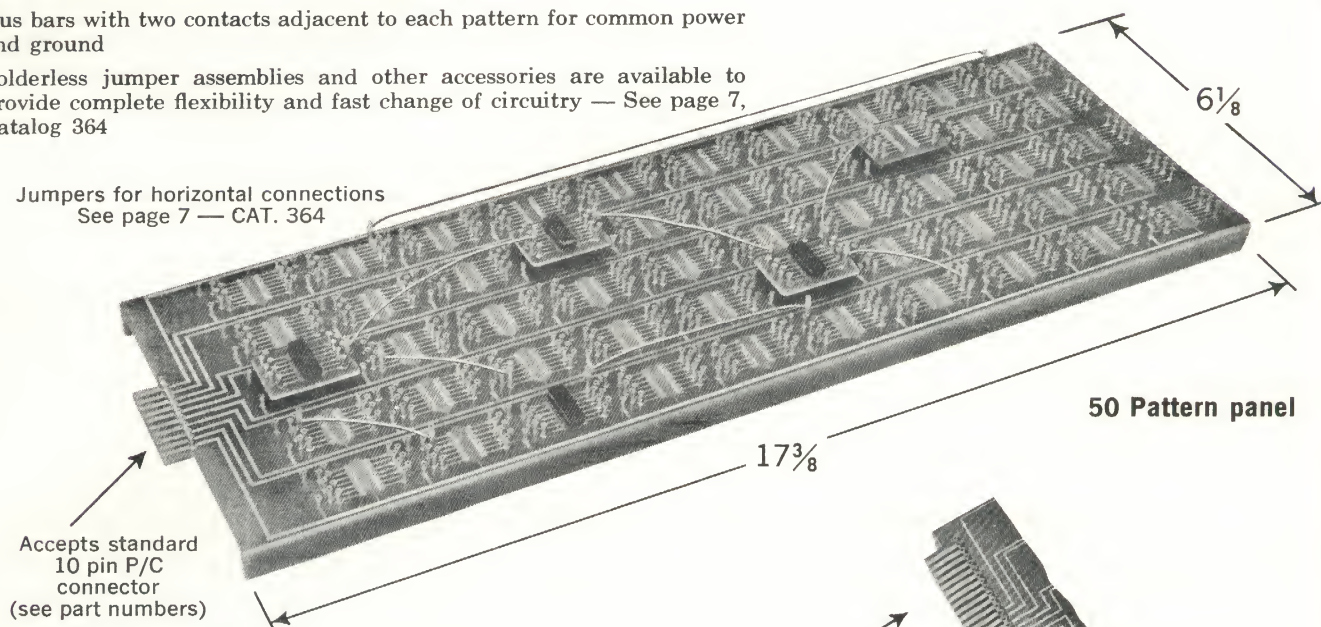
INC.
33 PERRY AVE., ATTLEBORO, MASS.

8130 SERIES BREADBOARD AND TEST PANEL

Temperature Range
— 65° to 150°C

- Accommodates up to 50 integrated circuits
- Easy entry contacts assist insertion of IC and eliminates soldering and welding of leads
- 8128-A SERIES single pattern units permit stacking
- Bus bars with two contacts adjacent to each pattern for common power and ground
- Solderless jumper assemblies and other accessories are available to provide complete flexibility and fast change of circuitry — See page 7, Catalog 364

Jumpers for horizontal connections
See page 7 — CAT. 364



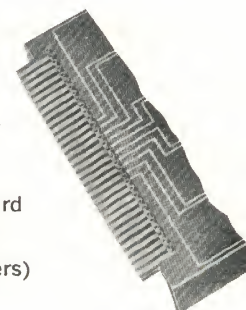
PART NUMBERS — 50 Pattern Panel

PART NUMBER	NO. OF CONNECTOR PAD TERMINALS	DESCRIPTION	
8130-AG3R	10	With 10 pin P/C connector	For use with packages having 14 leads — 2 rows of 7 (300 mil spacing between rows and 100 mil spacing between leads)
8130-AG1R	10	Without connector	
8130-36G2R	36	With 36 pin P/C connector	For use with packages having 16 leads — 2 rows of 8 (200 mil spacing between rows and 100 mil spacing between leads)
8130-36G1R	36	Without connector	
8130-BG2R	10	With 10 pin P/C connector	For use with packages having 16 leads — 2 rows of 8 (200 mil spacing between rows and 100 mil spacing between leads)
8130-BG1R	10	Without connector	
8130-36G4R	36	With 36 pin P/C connector	For use with packages having 16 leads — 2 rows of 8 (200 mil spacing between rows and 100 mil spacing between leads)
8130-36G3R	36	Without connector	
8130-BG4R	10	With 10 pin P/C connector	For use with packages having 16 leads — 2 rows of 8 (200 mil spacing between rows and 100 mil spacing between leads)
8130-BG3R	10	Without connector	
8130-36G6R	36	With 36 pin P/C connector	For use with packages having 16 leads — 2 rows of 8 (200 mil spacing between rows and 100 mil spacing between leads)
8130-36G5R	36	Without connector	

10 pin P/C connector only — Part No. 8089-3P1
36 pin P/C connector only — Part No. 8089-17P1

MATERIAL — connector
Body — Diallyl phthalate
Contacts — Phosphor bronze, gold over silver plated
Component extractor tool — Part. No. T114 (Facilitates removal of component)

Accepts standard
36 pin P/C
connector
(see part numbers)



Also available with fewer patterns — any multiple of 5 up to 50 (10 patterns minimum)

PART NUMBER EXAMPLE:
8130-AG3R-30

Basic Part No.

Dash No.
(Indicates No. of patterns)

Jumper assortment — Part No. 8076-12AS-1
• 140 Jumpers of assorted lengths and colors
• Refer to Data Sheet 364A

• MATERIALS SEE REVERSE SIDE



8128 SERIES
BREADBOARD ASSEMBLY

For use as individual units or for "stacking" on multi-pattern panels shown on reverse side. "Stacking" is accomplished through the use of adaptors, spacers and jumpers illustrated on page 7, Catalog 364. Also may be used with mounting socket 8076-10G1 — see page 4, Catalog 364.

PART NUMBERS

PART NUMBER	DESCRIPTION
8128-AG1	For use with packages having 14 leads — 2 rows of 7 (300 mil spacing between rows and 100 mil spacing between leads)
8128-BG1	For use with packages having 16 leads — 2 rows of 8 (300 mil spacing between rows and 100 mil spacing between leads)
8128-BG2	For use with packages having 16 leads — 2 rows of 8 (200 mil spacing between rows and 100 mil spacing between leads)

Board separator key — Part No. 8076-18P1 (facilitates separation of male and female contacts between stacked boards)

8135-A and 8135-B SERIES TEST SOCKETS

The 8135-A and 8135-B SERIES test sockets provide a fast and reliable method of testing monolithic circuits. Easy entry contacts facilitate insertion of circuit and eliminate soldering and welding of leads.

8135-B SERIES TEST SOCKET

For use with packages having 14 leads — 2 rows of 7 (300 mil spacing between rows and 100 mil spacing between leads). The unit is designed to plug into a standard fifteen-pin printed circuit connector.

PART NUMBERS

PART NUMBER	DESCRIPTION
8135-BG1	WITHOUT CONNECTOR
8135-BG2	WITH CONNECTOR

15-pin P/C polarized connector only — Part No. 8075-8P1-9
MATERIAL — Diallyl phthalate with phosphor bronze, gold over silver plated contacts

8135-A SERIES TEST SOCKET

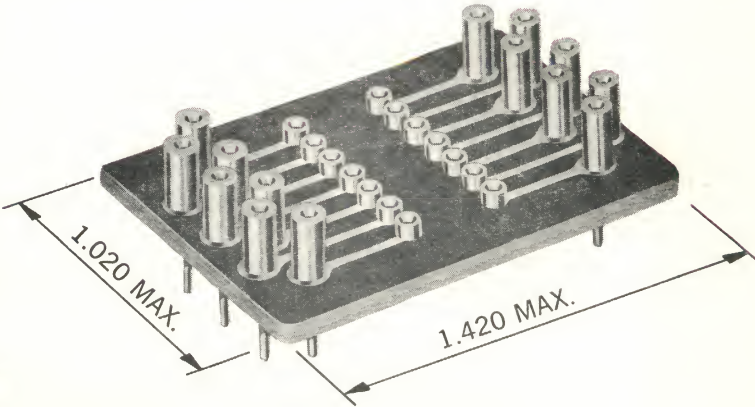
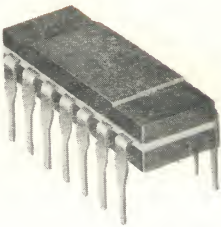
For use with package sizes as indicated below. The board is printed both sides and may be plugged into a standard eight-pin dual row printed circuit connector.

PART NUMBERS

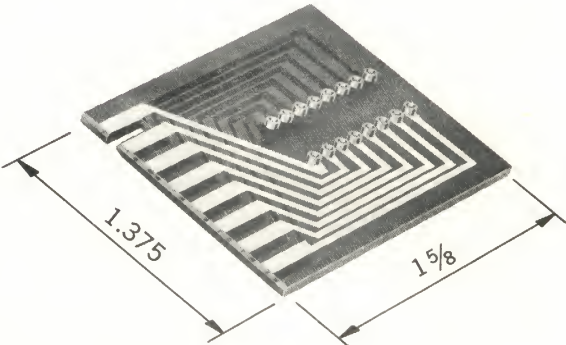
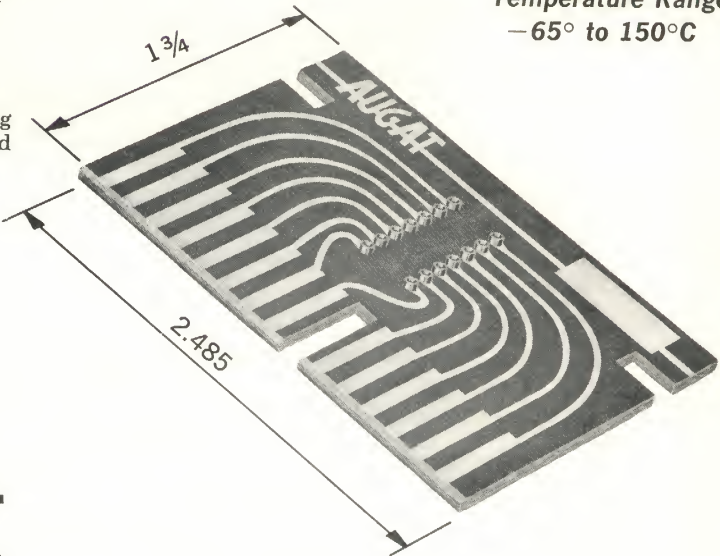
PART NUMBER	DESCRIPTION	
8135-AG3	WITHOUT CONNECTOR	For use with packages having 14 leads — 2 rows of 7 (300 mil spacing between rows and 100 mil spacing between leads)
8135-AG4	WITH CONNECTOR	
8135-AG1	WITHOUT CONNECTOR	For use with packages having 16 leads — 2 rows of 8 (300 mil spacing between rows and 100 mil spacing between leads)
8135-AG2	WITH CONNECTOR	
8135-AG5	WITHOUT CONNECTOR	For use with packages having 16 leads — 2 rows of 8 (200 mil spacing between rows and 100 mil spacing between leads)
8135-AG6	WITH CONNECTOR	

Connector only (8-pin dual row, polarized) — Part No. 8135-3P1
MATERIAL — Diallyl phthalate with beryllium copper, gold over silver plated contacts

Printed in U.S.A.



Temperature Range
—65° to 150°C



MATERIALS

PRINTED CIRCUIT BOARD
1/16 thick glass epoxy, NEMA grade G-11
copper circuitry, gold over nickel plated

CONTACT ASSEMBLIES

Female contact — Beryllium copper, gold over nickel plated
Terminal sleeve — Brass, gold over nickel plated

BREADBOARD AND TEST PANEL
for use with Integrated Circuit Flat Packs

DATA SHEET

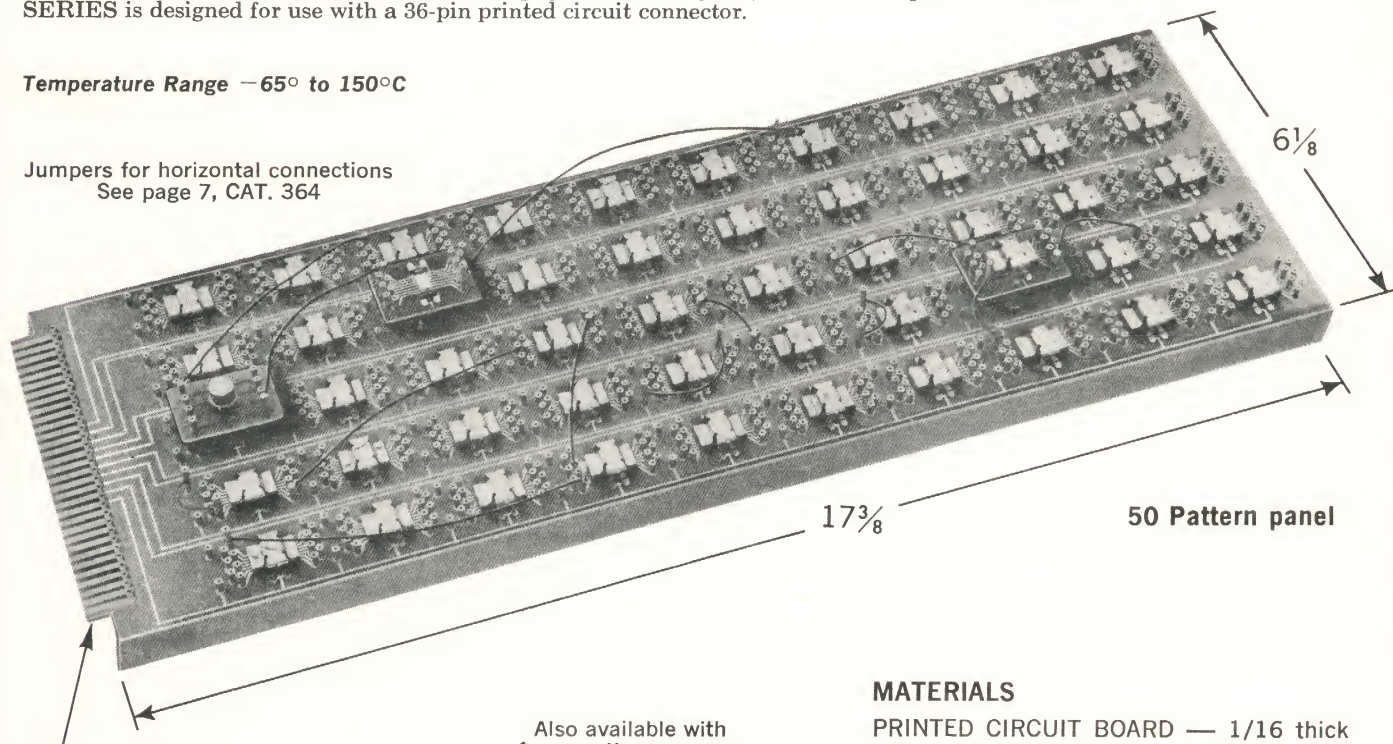
364D
Supplements
CAT. 364

AUGAT INC.
33 PERRY AVE., ATTLEBORO, MASS.

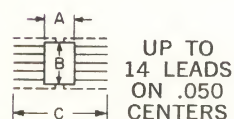
The 8089-36 SERIES supplements the Augat line of breadboard and test panels. The units are identical to the 8089-1 SERIES described on page 4 of Catalog 364, with one exception — the 8089-36 SERIES is designed for use with a 36-pin printed circuit connector.

Temperature Range — 65° to 150°C

Jumpers for horizontal connections
See page 7, CAT. 364



Accepts standard
36 pin P/C
connector



Also available with
fewer patterns — any
multiple of 5 up to 50
(10 patterns minimum)

PART NUMBER EXAMPLE:

8089-36G2R-30

Basic Part No.

Dash No.
(Indicates No. of patterns)

PART NUMBERS — 50 Pattern Panel

WITHOUT CONNECTOR	WITH P/C CONNECTOR	A	B	C
8089-36G1R	8089-36G2R	1/8 .180 Max.	1/4 1/4	.455 Min. .750 Max.
8089-36G3R	8089-36G4R	1/4	1/4	.500 Min. .750 Max.
8089-36G5R	8089-36G6R	1/4	3/8	.500 Min. .750 Max.
*8089-36G7R	*8089-36G8R	1/8	1/4	.285 Min. .750 Max.

P/C Connector only — Part No. 8089-17P1

Cover extractor tool — Part No. 8075-20G1 (Furnished with each panel to facilitate cover removal from top-side)

* WITHOUT LEAD SEPARATOR

MATERIALS

PRINTED CIRCUIT BOARD — 1/16 thick glass epoxy, NEMA grade G-11, copper circuitry, gold over nickel plated

LEAD SEPARATOR — Diallyl phthalate

COVER — Spring temper stainless steel
Insulating pressure pad — Silicone rubber

VERTICAL CONTACT ASSEMBLY
Female contact — Beryllium copper, gold over nickel plated

Terminal sleeve — Brass, gold over nickel plated

P/C CONNECTOR — Diallyl phthalate with spring temper phosphor bronze, gold over silver plated contacts

Breadboard assemblies 8076 and 8095 Series available for individual use or "stacking" — Refer pages 4 and 5 — Cat. 364

Jumper assortment — Part No. 8076-12AS-1 • 140 Jumpers of assorted lengths and colors • Refer to Data Sheet 364A



REPRESENTATIVES

NEW ENGLAND STATES

Stan Pierce, Inc.
24 Linden Street
Norwood, Massachusetts
115 Bald Hill Road
New Canaan, Connecticut

NORTHERN NEW YORK STATE

Midstate Research Sales Inc.
327 Wellesley Road
Syracuse, New York

METROPOLITAN NEW YORK

LONG ISLAND
NORTHERN NEW JERSEY
David Sonkin Associates
Lucas Building
10 Fiske Place
Mt. Vernon, New York

EASTERN PENN., SOUTHERN NEW JERSEY, DEL., MD., VA., WASH., D.C.

Daniel and Company
Box 124
Lutherville, Maryland
Box 3
Glenside, Pennsylvania

LA., MISS., WESTERN TENN., GA., ALA.

Craft Associates Company
P.O. Box 11716
Atlanta, Georgia
P.O. Box 1053
Huntsville, Alabama

FLORIDA

H. R. Gross & Company
Metropolitan Building - Suite 209
314 South Missouri Avenue
P. O. Box 1427
Clearwater, Florida

NORTH AND SOUTH CAROLINA EASTERN TENNESSEE

Powertronic Associates
P. O. Box 403
Thomasville, North Carolina
2454 Medway Drive
Raleigh, North Carolina

OHIO, WEST VIRGINIA, WESTERN PENNSYLVANIA

Allen Nace Company Inc.
P. O. Box 156
Brecksville, Ohio
Box 93
Riverdale Station
Dayton, Ohio
Box 10630
Pittsburgh, Pennsylvania

MINNESOTA, NORTH & SOUTH DAKOTA, WESTERN WISCONSIN

Mel Foster Company, Inc.
228 South Cedar Lake Road
Minneapolis, Minnesota

MICHIGAN

Hilltronics, Inc.
13720 Puritan Avenue
Detroit, Michigan

KENTUCKY, INDIANA

Delta Sales Incorporated
1407 North Illinois Street
Indianapolis, Indiana

ILLINOIS & EASTERN WISCONSIN

Ringland M. Krueger Co., Inc.
5755 West Irving Park Road
Chicago, Illinois

KANSAS, IOWA, EASTERN NEBRASKA, MISSOURI

Automatic Gen. Electronics Sales, Inc.
6550-B Troost Avenue
Kansas City, Missouri
2050 Woodson Road, Suite 213
St. Louis, Missouri

OKLAHOMA, TEXAS & ARKANSAS

R. F. Kimball
5531 Dyer Street
Dallas, Texas

COLORADO, UTAH, NEW MEXICO, WESTERN NEBRASKA, EASTERN MONTANA, EASTERN IDAHO

Gordon Moss Electronics Inc.
P. O. Box "J"
Greeley, Colorado
1502 Preston Street
P. O. Box 8022
Foothills Station
Salt Lake City, Utah

NORTHERN CALIFORNIA, HAWAII NEVADA (Except LAS VEGAS)

David H. Ross Co.
534 El Camino Real
San Carlos, California

SOUTHERN CALIFORNIA, ARIZONA, LAS VEGAS, NEV.

Paul F. Wiley Co.
1632 Silverlake Boulevard
Los Angeles, California

WASHINGTON, OREGON, WESTERN MONTANA, ALASKA & WESTERN IDAHO

The Ron Merritt Co.
1320 Prospect Street
Seattle, Washington
2035 S. W. 58th Avenue
Portland, Oregon

DISTRIBUTORS

ARIZONA

Kierulff Electronics, Inc.
917 North 7th Street
Box 2229
Phoenix, Arizona

CALIFORNIA

Kierulff Electronics, Inc.
2585 Commerce Way
Los Angeles, California
2484 Middlefield Road
Mountain View, California
8137 Engineer Road
San Diego, California
589 Los Feliz Drive
Santa Barbara, California
Moulton Electronics Distributors, Inc.
1058 Terminal Way
San Carlos, California

Perlmuth Electronics
5057 W. Washington Blvd.
Los Angeles 16, California

COLORADO

L. B. Walker Radio Company
300 Bryant Street
Denver, Colorado

Kierulff Electronics, Inc.
1200 Stout Street
Denver, Colorado

CONNECTICUT

Arrow Electronics Inc.
18 Isaac Street
Norwalk, Connecticut

FLORIDA

Electronic Wholesalers, Inc.
1301 Hibiscus Boulevard
P. O. Drawer 1655
Melbourne, Florida
9390 N. W. 27th Avenue
P. O. Box 190—Northwest Branch
Miami, Florida

INDIANA

Radio Distributing Company
814 North Senate Avenue
Indianapolis, Indiana
Graham Electronics Supply, Inc.
122 South Senate Avenue
Indianapolis, Indiana

MARYLAND

Valley Electronics Incorporated
8803 Satyr Hill Road
Baltimore, Maryland
Empire Electronic Supply Company
4907 Rugby Avenue
Bethesda, Maryland

MASSACHUSETTS

DeMambo Electronics
1095 Commonwealth Avenue
Boston, Massachusetts
222 Summer Street
Worcester, Massachusetts
Durrell Electronics, Inc.
922 Main Street
Waltham, Massachusetts

MISSOURI

Walters Radio Supply, Inc.
3635 Main Street
Kansas City, Missouri

Electronix Inc.
P. O. Box 188
214 No. 2nd
St. Charles, Missouri

NEW HAMPSHIRE

DeMambo Electronics
1308 Elm Street
Manchester, New Hampshire

NEW MEXICO

Kierulff Electronics, Inc.
811 First Street
Alamogordo, New Mexico
6405 Acoma Road, S. E.
Albuquerque, New Mexico

NEW YORK

Milo Electronics Corp.
530 Canal Street
New York, New York
Car-Lac Electronics Industrial Sales, Inc.
2357 Bedford Avenue
Bellmore, Long Island, New York
Summit Distributors, Inc.
916 Main Street
Buffalo, New York
Stack Industrial Electronics, Inc.
45-49 Washington Street
Binghamton, New York

NORTH CAROLINA

Kirkman Electronics, Inc.
823 S. Marshall Street
Drawer K—Salem Station
Winston Salem, North Carolina

OHIO

The W. M. Pattison Supply Co.
Industrial Electronics
777 Rockwell Avenue
Cleveland, Ohio

OKLAHOMA

Hall-Mark Electronics Corporation
5708 East Admiral Boulevard
Tulsa, Oklahoma

PENNSYLVANIA

Radio Electric Service Co. of Penna., Inc.
701 Arch Street
Philadelphia, Pennsylvania
Cameradio Company
1121 Penn Ave.
Pittsburgh, Pennsylvania

RHODE ISLAND

DeMambo Electronics
1290 Westminster Street
Providence, Rhode Island

TEXAS

Sterling Electronics, Inc.
1616 McKinley Avenue
P. O. Box 1229
Houston, Texas
Wholesale Electronic Supply
2809 Ross Avenue
Dallas, Texas

UTAH

Standard Supply Co.
P. O. Box 1047
225 East 6th South
Salt Lake City, Utah

ILLINOIS

Allied Electronics Corp.
Sub. of Allied Radio Corp.
100 No. Western Avenue
Chicago, Illinois

FOREIGN AGENTS

CANADA

Dart Electronics Ltd.
11 Flaxman Road
Weston, Ontario, Canada
Essential Electronics Ltd.
845 Wilson Avenue
Downsview, Ontario, Canada
Avnet Electronics Ltd.
87 Wingold Avenue
Toronto 19, Ontario, Canada
Avnet Electronics Ltd.
1505 Louvain Street West
Montreal 11, Quebec, Canada

NORWAY AND FINLAND

Norsk Marconikompani A/S
Ryensvingen 5
P.O. b. 50
Manglerud
Oslo 6 - Norway

ITALY

Temac Elettronica s.r.l.
Via Abbadesse 52
Milano, ITALY

FRANCE and BELGIUM

Teknis
37, Rue Rouget DeLisle
Suresnes (Seine)
FRANCE

FRANCE

Jiveco Electronics
21 Avenue Victor-Hugo
Paris 16e, FRANCE

SOUTH AFRICA

Racal S.M.D. Electronics Pty. Ltd.
140 Struben Street
Pretoria
South Africa

HOLLAND

Nijkerk's
Handelsonderneming N. V.
Warmoesstraat 94
Amsterdam-C., HOLLAND

AUSTRALIA

A. J. Ferguson (Adelaide) Pty. Ltd.
189 Flinders Street
Adelaide, Australia

WEST GERMANY

Neumuller & Company, GMBH
Schraudolphstrabe 2a
Munich 13, GERMANY

SWEDEN

AB Kuno Kallman
Jamtorget 7
Gothenburg SV, Sweden

UNITED KINGDOM, IRELAND, DENMARK, NORWAY, SWITZERLAND, AUSTRIA, PORTUGAL, SWEDEN

Electrosil Ltd.
Pallion
Sunderland, England
UNITED KINGDOM

Micro Electronics Division
Lakeside Estate
Colnbrook-BY-Pass
Slough, Bucks. Colnbrook 2996
ENGLAND

ISRAEL

Elina Ltd.
P. O. Box 960
Tel-Aviv-ISRAEL

HIGH DENSITY PACKAGING PANELS

for 14 lead plug-in integrated circuits

AUGAT

INC.
33 PERRY AVE., ATTLEBORO, MASS.

- 30 and 60 patterns standard
- double-sided board with power and ground planes at each pattern
- easy IC insertion — large contoured, closed-entry contacts
- operating temperature range -65° to 150°C
- Wire-Wrap® or solder pot terminals

®Trade Mark Gardner-Denver Company

POWER PLANE ON BOTTOM

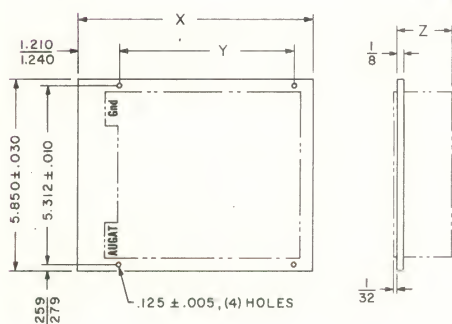
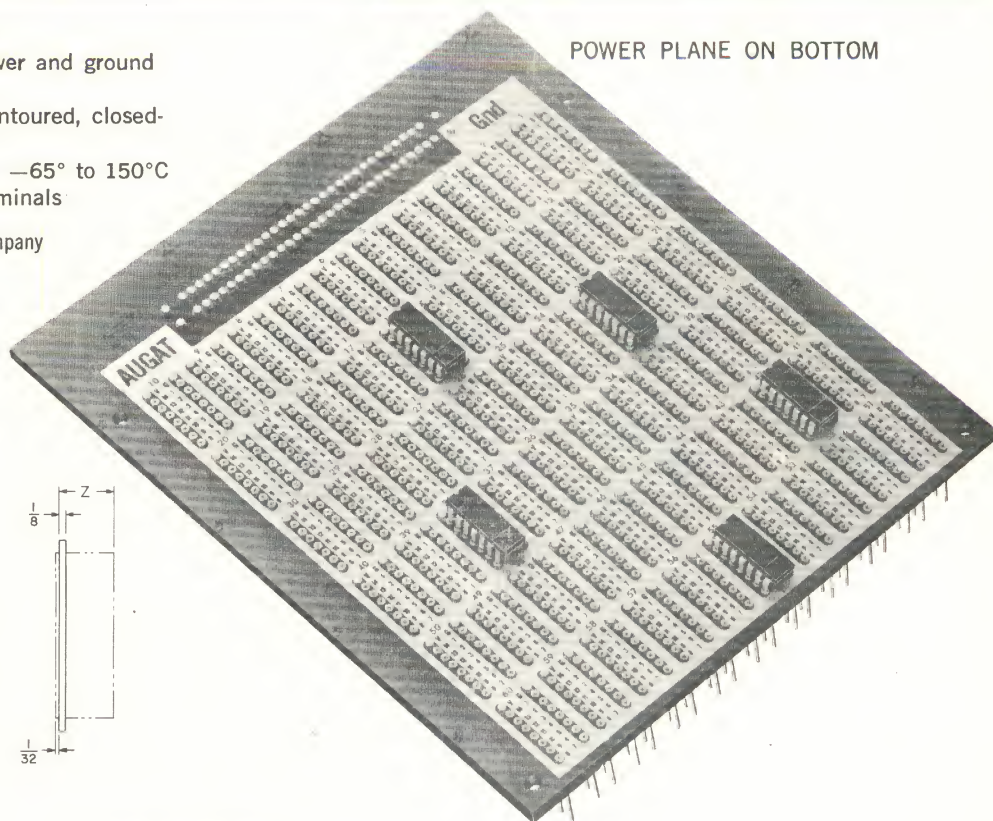


FIG. 1

PART NUMBERS

14 LEADS ROUND OR FLAT	PART NO.	NUMBER OF PATTERNS	REFER TO FIG. 1			*SOCKET/TERMINAL	
			$\pm .030$ X	$\pm .010$ Y	$\pm .015$ Z	STYLE	PART NO.
 F—.015 to .023 R—Up to .019	8136-DG1	60	7.000	5.200	.664	Wire-Wrap	LSG-1FG1-1
	8136-DG1-30	30	4.300	2.500			
	8136-DG2	60	7.000	5.200	.365	Solder Pot	LSG-1BG2-1
	8136-DG2-30	30	4.300	2.500			
F—.024 to .031 R—.020 to .025	8136-DG3	60	7.000	5.200	.773	Wire-Wrap	LSG-2FG1-1
	8136-DG3-30	30	4.300	2.500			
	8136-DG4	60	7.000	5.200	.474	Solder Pot	LSG-2BG2-1
	8136-DG4-30	30	4.300	2.500			

*To further extend the scope and flexibility of standard packaging panels, SOCKET/TERMINALS may be purchased as separate items — see reverse side

MATERIALS

P/C Board — $\frac{1}{8}$ thick glass epoxy, NEMA grade G-11, 2 oz. copper circuitry both sides, tin plated

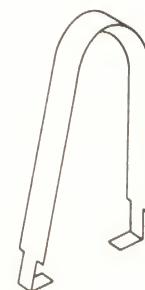
Socket/Terminal

Terminal — Brass, gold over nickel plated
 Female contact — Beryllium copper, gold over nickel plated

Custom Designs

- minimum cost
- fast delivery
- engineering assistance
- complete in-house facilities

Send us your requirements — Prompt reply

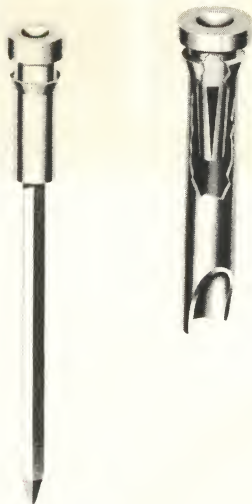


EXTRACTOR TOOL
Part No. T114-1

A simple tool that assists removal of IC.
 Accelerates handling and minimizes IC lead damage.

SEE REVERSE SIDE





*CONTROLLED WIRE-WRAP LENGTH
 $.025 \pm .003$ square, with $.003$ maximum radii on corners
 (30 ga. wire — up to 3 connections of 8 wraps each)

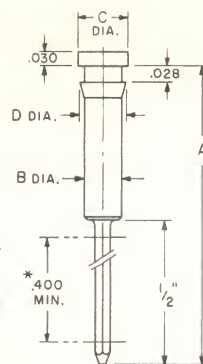


FIG. 2
Wire-Wrap
(.025 square)

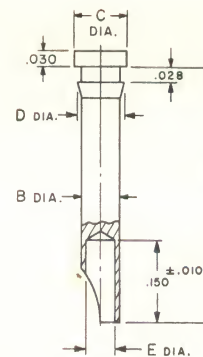
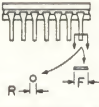


FIG. 3
Solder Pot

PART NUMBERS

ROUND OR FLAT LEADS 	PART NO.	FIG. NO.	$\pm .015$ A	$\pm .003$ B	$\pm .003$ C	$\pm .003$ D	$\pm .003$ E	RECOMMENDED MOUNTING HOLE
F—.015 to .023 R—Up to .019	LSG-1FG1-1	2	.664	.053	.072	.060	—	#54 Drill (.055 Dia.)
	LSG-1BG2-1	3	.365	.053	.072	.060	.038	
F—.024 to .031 R—.020 to .025	LSG-2FG1-1	2	.773	.073	.085	.082	—	#48 Drill (.076 Dia.)
	LSG-2BG2-1	3	.474	.073	.085	.082	.055	

MATERIALS

Terminal — Brass, gold over nickel plated

Female contact — Beryllium copper, gold over nickel plated

Gold plate .000040 thick per MIL-G-45204, type II

Tolerances unless otherwise specified: Decimals $\pm .005$, Fractions $\pm 1/64$

14 CONTACT DUAL-IN-LINE SOCKET

for testing and packaging
Plug-in Integrated Circuits

AUGAT

INC.

33 PERRY AVE., ATTLEBORO, MASS.

- low cost ● high performance ● wide application
- eliminates soldering or welding IC leads
- accepts packages with flat or round leads — 300 mil spacing between rows, 100 mil spacing between leads
- contoured entry holes guide IC leads into socket
- gentle wiping leaf contacts provide high reliability and prevent damage to the delicate IC leads
- printed circuit or chassis mount style — dip solder or Wire-Wrap® terminals
- molded diallyl phthalate body, beryllium copper, gold-plated contacts

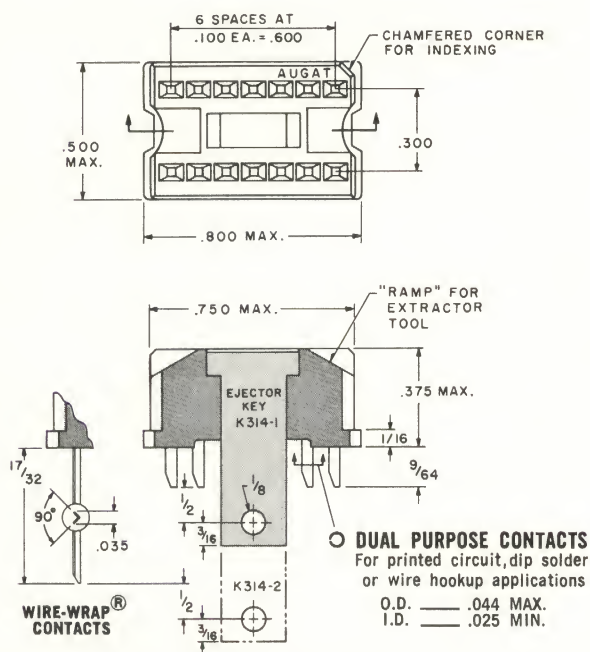
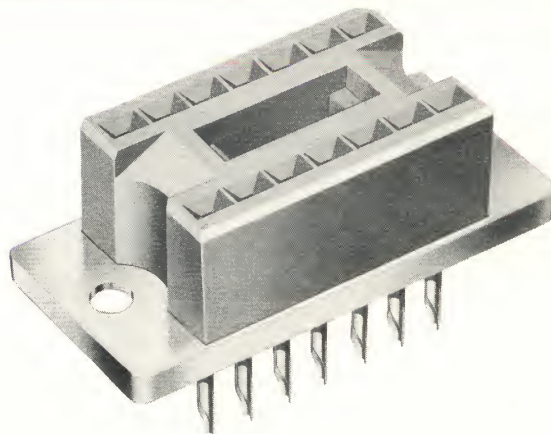


FIG. 1

Note: Ejector keys must
be ordered separately

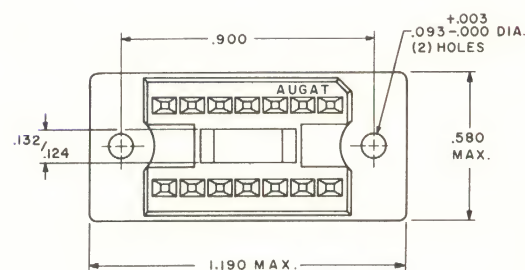


FIG. 2

Other dimensions per Fig. 1

Tolerances unless otherwise specified: Decimals $\pm .005$, Fractions $\pm 1/64$

MATERIALS

Body — Diallyl phthalate, type SDG per MIL-M-14

Contacts — Spring temper beryllium copper per QQ-C-530,
gold-plated .000040 thick per MIL-G-45204, type
II, over dull nickel plate

Mounting saddle — Stainless steel, type 304

Ejector key — Phenolic

®Trade Mark Gardner-Denver Company

PART NUMBERS

PART NO.	FIG. NO.	TERMINAL STYLE	DESCRIPTION
314-AG1A	1	PRINTED CKT./WIRE HOOKUP	WITHOUT MOUNTING SADDLE
314-AG1F	1	WIRE-WRAP	
314-AG3A	2	PRINTED CKT./WIRE HOOKUP	WITH MOUNTING SADDLE
314-AG3F	2	WIRE-WRAP	

Note:
Sockets with Wire-Wrap terminals
available after October 1, 1966

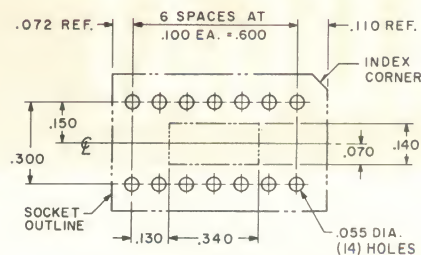
16 CONTACT DUAL-IN-LINE
SOCKET ALSO AVAILABLE

PANEL CUTOUTS, ACCESSORIES, TEST DATA — SEE REVERSE SIDE

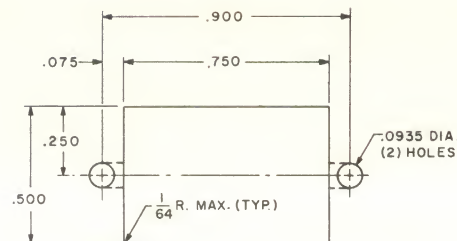


ELECTRONIC COMPONENTS AND HARDWARE

PANEL CUTOUTS

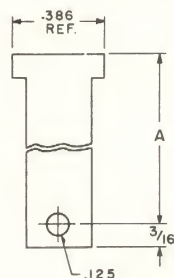


RECOMMENDED PRINTED CIRCUIT CUTOUT
(Provide .140 x .340 opening only if ejector key is used)



RECOMMENDED CHASSIS CUTOUT
Note: Socket may be mounted above or below chassis

ACCESSORIES



EJECTOR KEY

Designed to increase production in testing programs, the key applies an even upward pressure to the underside of the substrate and guides the IC to a precise release.

The key is offered as a standard item in the design and lengths shown. Due to varying requirements of testing programs custom designed keys may be required. AUGAT will be glad to cooperate with you in the design and manufacture of custom keys.

PART NUMBERS

PART NO.	±.030 A	USE WITH SOCKETS HAVING TERMINAL STYLE
K314-1	.995	PRINTED CKT./WIRE HOOKUP
K314-2	1.387	WIRE-WRAP

EXTRACTOR TOOL Part No. T114-1

A simple tool that assists removal of IC from top-side. "Ramp" design in socket body guides tool and provides a gentle lift-out effect.

Accelerates handling and minimizes IC lead damage. Especially helpful in close packaging conditions.



TEST DATA

TEST	CONDITION	RESULT
Shock	150 g's per MIL-STD-202 Method 202, three shocks in each of three mutually perpendicular planes.	No damage to component or socket, component was retained by socket
Vibration	10-2000 cps @ 20 g's or .060 inch double amplitude per MIL-STD-202, test condition D, method 204A	
Capacitance	Between chassis and terminal @ 1 KC per MIL-STD-202 method 305	1.5 pf max.
	Between adjacent terminals	0.8 pf max.
	Between opposite terminals	0.4 pf max.
Contact Resistance	Measured from terminal .020 inch diameter steel pin @ 1 amp per MIL-STD-202, method 307	13 milliohms average
	Measured from terminal through .010 x .017 inch rectangular Kovar lead	17 milliohms average
Insulation Resistance	Between terminals and between any terminal and the chassis per MIL-STD-202 method 302 test condition B (500 volts)	Greater than 2 million megohms
Thermal Shock	-65° to 150°C per MIL-STD-202 Method 107, test condition F	No damage to insulator or contacts

NOTE: Tests were performed using a 314-AG3A socket fastened to an aluminum chassis with standard mounting hardware. Socket had 14 lead DIL package in place.

TEFLON and GLASS EPOXY SOCKET ASSEMBLIES

Code to last suffix letters in Augat part numbers:

A ____ P.C. (tail) teflon insulation only

B ____ Solder Cup

C ____ Turret

D ____ P.C. (solder) glass epoxy insulation only

F ____ Wire-Wrap (teflon insulation only)

AUGAT PART NUMBER	PACKAGE SUPPLIER	NUMBER OF CONTACTS	DESCRIPTION
114-AG1A 114-AG1B * 114-AG1C	Fairchild CTuL or equal	14	
114-AG2A *	Fairchild CTuL or equal	14	
114-AG3F *	Fairchild CTuL or equal	14	
214-AG1D *	Fairchild CTuL or equal	14	
116-AG3A 116-AG3B * 116-AG3C	Fairchild CTuL or equal	16	
116-AG7A *	Fairchild CTuL or equal	16	
216-AG1D *	Fairchild CTuL or equal	16	

TEFLON and GLASS EPOXY SOCKET ASSEMBLIES

AUGAT PART NUMBER	PACKAGE SUPPLIER	NUMBER OF CONTACTS	DESCRIPTION
114-BG1A *	Sylvania	14	
116-BG2A *	T.I.	16	
116-AG4A	Amelco	16	
115-AG1A 115-AG1B 115-AG1C	Corning	15	
116-AG2A 116-AG2B 116-AG2C	Corning	16	
120-AG1A 120-AG1B	Hamilton Standard	20	
8015-19G1 8016-6G1		8 10	

There is an extractor tool available, Part No. T-114, to aid in removing the package from the socket. This is designed to work with the sockets marked with an asterisk (*).

In addition to the above more popular configurations, we are in a position to furnish any required pattern in either glass epoxy or Teflon.

TEST SOCKETS for Integrated Circuits

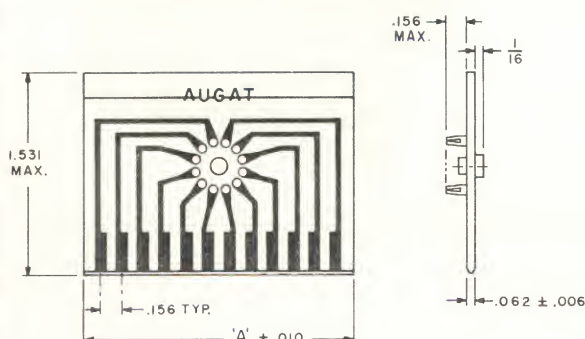
DATA SHEET 364 A

Supplements
CAT. 364

Supersedes
Data
Sheet
465

AUGAT INC.

33 PERRY AVE., ATTLEBORO, MASS.



MATERIALS

PRINTED CIRCUIT BOARD — $\frac{1}{8}$ thick glass epoxy, NEMA grade G-11, copper circuitry, gold over nickel plated

SPACER — Teflon

CONTACT — Beryllium copper, gold over nickel plated

The 8117 SERIES is designed to provide a reliable and expeditious method of testing integrated circuits contained in TO-5 cases (8, 10 and 12 leads). Countersunk beryllium copper contacts facilitate lead entry and insure low contact resistance. All units plug into standard printed circuit board connectors.

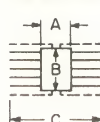
PART NUMBERS

Part No.	No. of Contacts	Pin Circle Dia.	± .010 A
8117-AG3	8	.250	1.687
8117-AG4	10	.300	1.687
8117-AG5	12	.360	2.010

All contacts equally spaced

The 8104 SERIES is similar to the 8075 series illustrated on page 6, incorporating a polarization notch and two extractor notches.

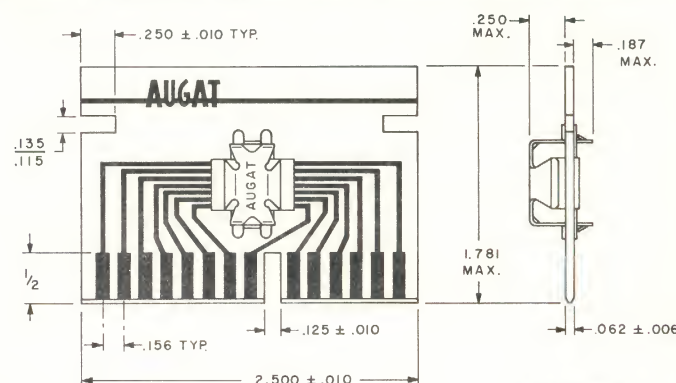
UP TO
14 LEADS
ON .050
CENTERS



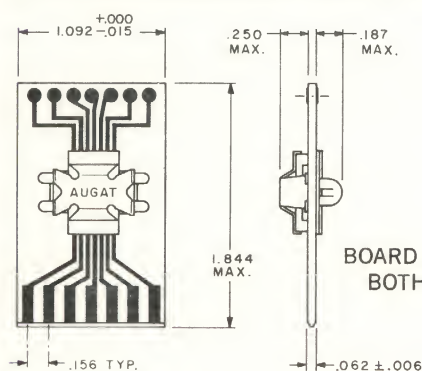
PART NUMBERS

With Connector	Without Connector	A	B	C
8104-1G3	8104-1G1	$\frac{1}{8}$.180 Max. $\frac{1}{4}$	$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$.500 Min. 1.000 Max.

CAN BE FURNISHED FOR OTHER FLAT PACK SIZES

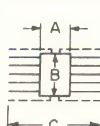


MATERIALS
see below



BOARD PRINTED
BOTH SIDES

UP TO
14 LEADS
ON .050
CENTERS



Part no.	A	B	C
8075-39G1	$\frac{1}{8}$.180 Max. $\frac{1}{4}$	$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$.500 Min. 1.000 Max.

CAN BE FURNISHED FOR OTHER FLAT PACK SIZES

Designed for space-saving applications, this assembly features a double-sided printed circuit board for use with a standard double row printed circuit connector. Two or more units can be installed side by side in one double row connector (example—two units can be plugged into a fifteen contact double row connector)

MATERIALS

PRINTED CIRCUIT BOARD — $\frac{1}{8}$ thick glass epoxy, NEMA grade G-11, copper circuitry, gold over nickel plated

LEAD SEPARATOR — Diallyl phthalate

COVER — Spring temper stainless steel

Insulating pressure pad — Silicone rubber

see reverse side

Printed in U. S. A.



ELECTRONIC COMPONENTS AND HARDWARE

8089 and 8100 SERIES VARIATIONS

The 8089 and 8100 SERIES (shown on pages 4 and 5) are now available with fewer patterns — any multiple of 5 up to 50 (10 patterns minimum)

PART NUMBER EXAMPLE:

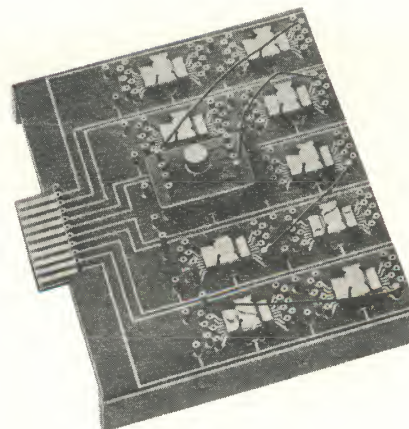
8089-1G7R | **-30** (30 Pattern panel)

8100-1G5R | **-45** (45 Pattern panel)

Basic part no.

(see pages 4 and 5, CAT. 364)

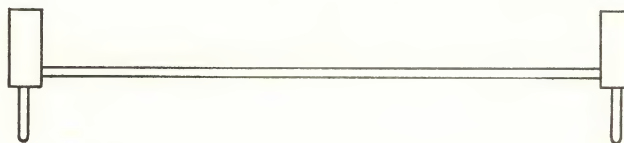
Dash no. (Indicates no. of patterns)



JUMPER ASSORTMENT — 8076-12AS-1 SERIES

Now available — a standard jumper assortment under one part number, eliminating the necessity of ordering separate lengths and colors. This assortment comprises the following:

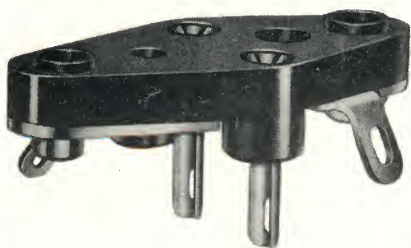
- 140 Jumpers total
- 10 ea. of seven solid colors — 2" long
- 5 ea. of seven solid colors — 4" long
- 5 ea. of seven solid colors — 6" long



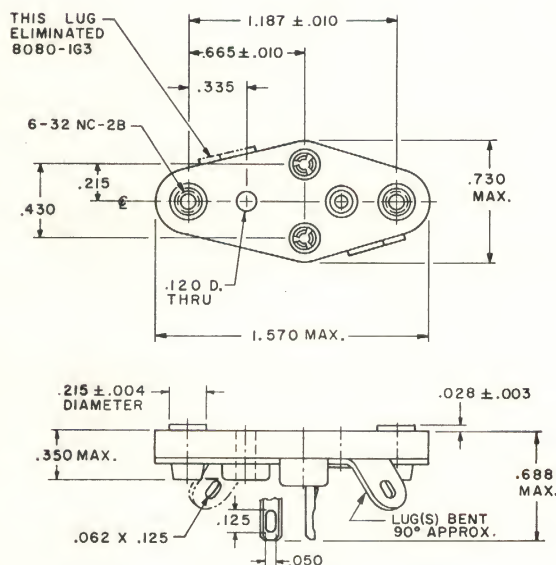
This does not include our entire range of colors and lengths — refer to page 7 for complete information and separate ordering.

AUGAT INC.

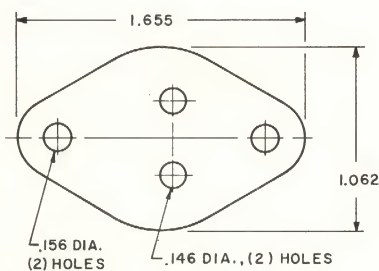
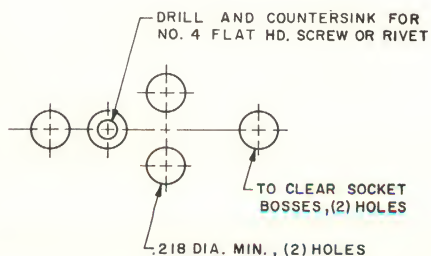
33 PERRY AVE., ATTLEBORO, MASS.

**POWER TRANSISTOR SOCKET
for TO-3 outlines**

- High quality, low cost
- Accepts pin diameters .040 to .060 inch
- Threaded base plate with integral solder lug(s)
- Beryllium copper contacts



Unless otherwise specified tolerance is ±.005.

CHASSIS INSULATOR
(.003 IN. THK.)

RECOMMENDED CHASSIS CUTOUT

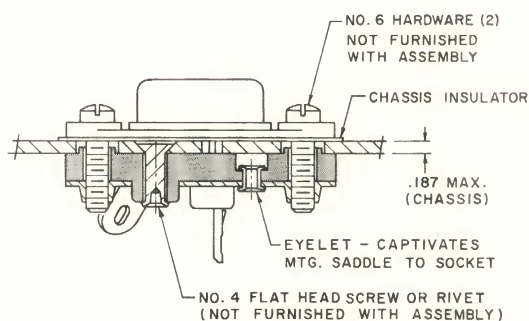


ILLUSTRATION OF ASSEMBLED UNIT

MATERIALS

SOCKET INSULATION — General purpose black phenolic per MIL-M-14, type CFG

CONTACT — Beryllium copper, electro tin plated

MOUNTING SADDLE AND EYELET — Brass, electro tin plated

CHASSIS INSULATOR — Mica

WEIGHT — .016 lb. (approx.)

TEST DATA

Current rating 15 amperes

48 hour salt spray per MIL-STD-202, test cond. B, method 101 No breakdown of plating or damage to base metals

Minimum thread strength (torque) 20 in. lb.

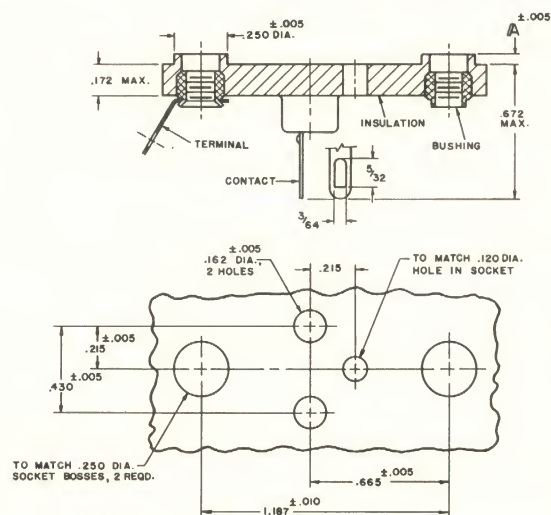
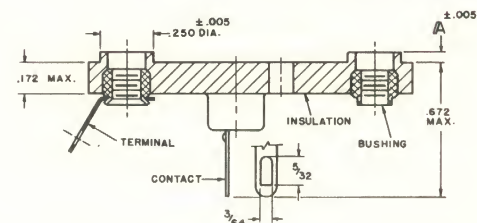
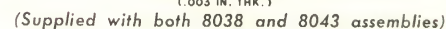
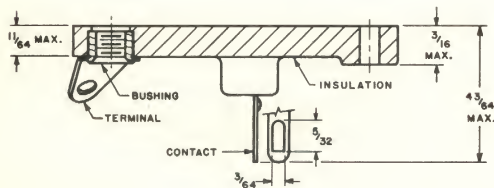
PART NUMBERS

PART NO.	DESCRIPTION
8080-1G1	2 solder lugs
8080-1G3	1 solder lug

27/1/19...



Copper, Hot tin dipped.



SOCKET INSULATION	$\pm .005$ A	AUGAT NO.	WEIGHT
G.P. BLACK PHENOLIC	.080	8043-1G3	.010 LB.
G.P. BLACK PHENOLIC	.110	8043-1G4	.010 LB.

(CHASSIS INSULATOR SUPPLIED WITH BOTH ASSEMBLIES)

Printed in U. S. A.

AUGAT INC.

33 PERRY AVE., ATTLEBORO, MASS.

LEAD SOCKETS

- standard assemblies available in four diameter ranges .015 to .020 — .020 to .030 — .030 to .040 — .040 to .050
- beryllium copper contact design retains lead or pin over entire diameter range (high to low extremes) without intermittency
- machined, closed-entry contact assures high reliability
- "barb" design assures positive retention in printed circuit board
- modifications designed to your specifications
- no special assembly tools required

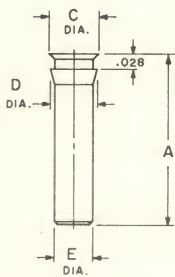
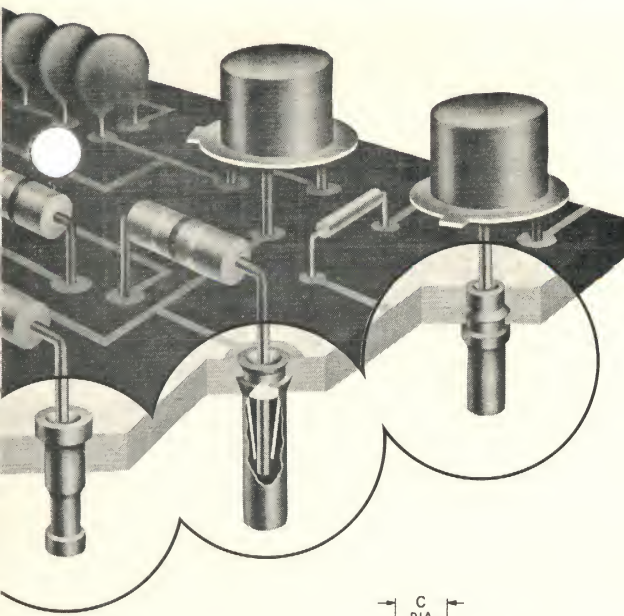


FIG. 1

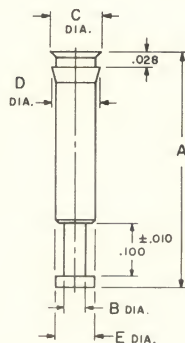


FIG. 2

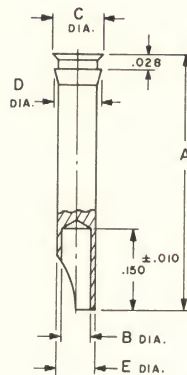


FIG. 3

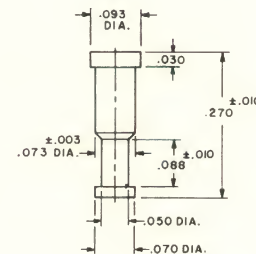


FIG. 4

PART NO. — LSG-2CG1-1
Pin dia. range — .020/.030
Pin length range — .156/.250

PART NUMBERS

Part No.	Fig. No.	Pin Diameter Range	Pin Length Range	±.010 A	±.005 B	±.003 C	±.003 D	±.003 E	Recommended Mounting Hole
LSG-1DG2-1	1	.015/.020	.125/.175	.203	—				#54 Drill (.055 dia. ref.)
LSG-1CG1-1	2	.015/.020	.125/.175	.323	.025	.062	.060	.052	
LSG-1BG1-1	3	.015/.020	.125/.175	.365	.038				
LSG-1DG1-1	6	.015/.020	.125/.155						SEE FIG. 6
LSG-2DG3-1	1	.020/.030	.156/.218	.245	—				#45 Drill (.082 dia. ref.)
LSG-2DG1-1	1	.020/.030	.156/.281	.312	—	.093	.089	.076	
LSG-2CG2-1	2	.020/.030	.156/.281	.432	.040				
LSG-2BG1-1	3	.020/.030	.156/.281	.474	.055				SEE FIG. 4
LSG-2CG1-1	4	.020/.030	.156/.250						
LSG-2AG2-1	5	.020/.030	.140/.170						SEE FIG. 5
LSG-3DG1-1	1	.030/.040	.187/.281	.312	—				#43 Drill (.089 dia. ref.)
LSG-3CG1-1	2	.030/.040	.187/.281	.432	.045	.100	.096	.084	
LSG-4DG1-1	1	.040/.050	.187/.281	.312	—				#37 Drill (.104 dia. ref.)
LSG-4CG1-1	2	.040/.050	.187/.281	.432	.045	.115	.110	.098	

Lead sockets with "barb" design are for use in $\frac{1}{16}$ inch minimum thick boards

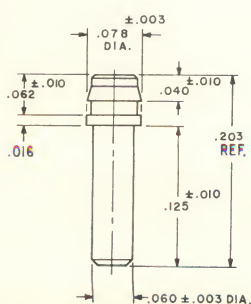


FIG. 6

PART NO. — LSG-1DG1-1
Pin dia. range — .015/.020
Pin length range — .125/.155
Recommended mtg. hole
#50 drill (.070 dia. ref.)

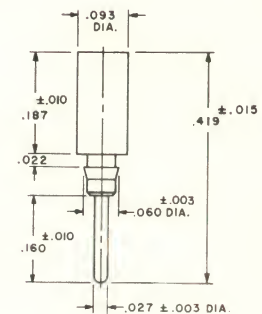


FIG. 5

PART NO. — LSG-2AG2-1
Pin dia. range — .020/.030
Pin length range — .140/.170
Recommended mtg. hole
#54 drill (.055 dia. ref.)

MATERIALS

CONTACT — Beryllium copper, gold plated .000040 thick per MIL-G-45204, type II, over .0001/.0002 thick dull nickel plate

TERMINAL SLEEVE — Brass, gold plated .000040 thick per MIL-G-45204, type II, over .0001/.0002 thick dull nickel plate

Other finishes available on request

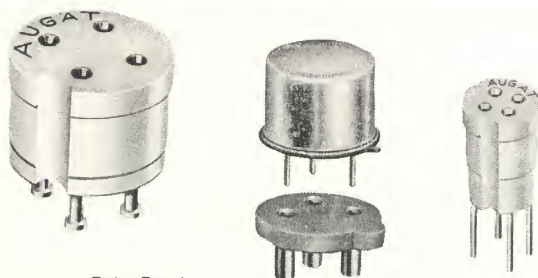
MINIATURE TRANSISTOR SOCKETS

DATA SHEET

AUGAT INC.

33 PERRY AVE., ATTLEBORO, MASS.

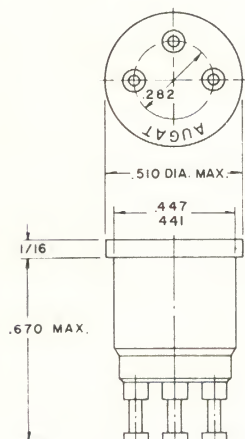
263
Revised
MARCH
1966
Supersedes
Bulletin
263



Pats. Pend.

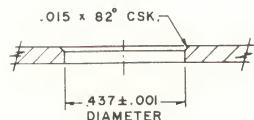
FOR USE WITH TO-8 CASE SIZE

PANEL MOUNT, PUSH-FIT TYPE



Part No. 8070-1G1

MATERIALS
INSULATOR — Teflon
CONTACT —
Beryllium copper



recommended chassis cutout

Illustrated are sockets for most of the semiconductor pin layouts.

We are in a position to provide you with any pin layout using contact terminal styles shown, provided a minimum of .072 inch center to center contact spacing is maintained.

NOTE:

8058 Series — Do not exceed .280 diameter pin circle.

8060 Series — Do not exceed .140 diameter pin circle.

This information does not apply to the 8069 or 8070 Series.

SPECIFICATIONS

MATERIALS

Teflon — TYPE TFE per MIL-P-19468

Glass epoxy — TYPE GEE per MIL-P-18177B

Brass — 1/2 Hard per QQ-B-626

Beryllium copper — per QQ-C-530

Phosphor Bronze — Spring temper per MIL-T-3595A.

PLATING

All metal parts are gold over nickel plated

Dull nickel plate — .0001/.0002 thick

Gold plate — .000040 thick per MIL-G-45204, type II

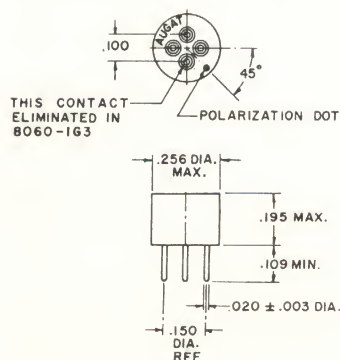
FOR USE WITH TO-18 CASE SIZE

PRINTED CIRCUIT TYPE

(Closed Entry Contacts)

(cut transistor leads .145±.020)

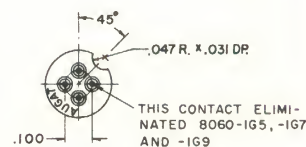
Part No.	Number of Contacts
8060-1G3	3
8060-1G4	4



PRINTED CIRCUIT AND PANEL MOUNT PUSH-FIT TYPE

(Closed Entry Contacts)

Part No.	Number of Contacts	Contact Type	Cut Transistor Leads
8060-1G5	3	solder pocket	$\frac{3}{16} \pm \frac{1}{32}$
8060-1G6	4	solder pocket	$\frac{3}{16} \pm \frac{1}{32}$
8060-1G7	3	printed circuit	$\frac{3}{16} \pm \frac{1}{32}$
8060-1G8	4	printed circuit	$\frac{3}{16} \pm \frac{1}{32}$
8060-1G9	3	turret	$\frac{3}{4}$ min.
8060-1G10	4	turret	$\frac{3}{4}$ min.

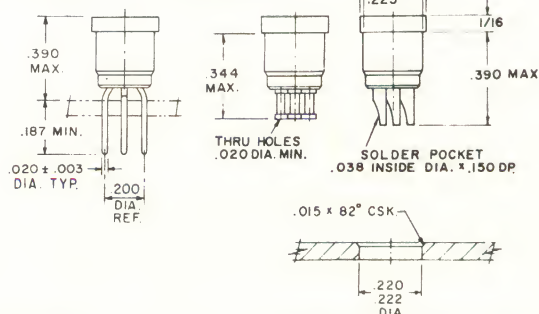


MATERIALS
(See specifications above)

INSULATOR
Teflon

CONTACT SLEEVE TERMINAL
Brass, nickel and gold plated

CONTACT
Beryllium copper, nickel
and gold plated



Unless otherwise specified tolerance is ±.005

recommended chassis cutout



ELECTRONIC COMPONENTS AND HARDWARE

PANEL MOUNT, PUSH-FIT TYPE

Part No.	Number of Contacts	Contact Type	Cut Transistor Leads
8058-1G3	3	turret	$\frac{3}{64}$ min.
8058-1G4	4	turret	$\frac{3}{64}$ min.
8058-1G25	3	turret (closed entry)	$\frac{3}{64}$ min.
8058-1G26	4	turret (closed entry)	$\frac{3}{64}$ min.
8058-1G29	3	solder pocket (closed entry)	$\frac{3}{16} \pm \frac{1}{32}$
8058-1G30	4	solder pocket (closed entry)	$\frac{3}{16} \pm \frac{1}{32}$

MATERIALS (See specifications on page 1)

8058-1G25, -1G26, -1G29 and -1G30

INSULATOR — Teflon

CONTACT SLEEVE TERMINAL — Brass, nickel and gold plated

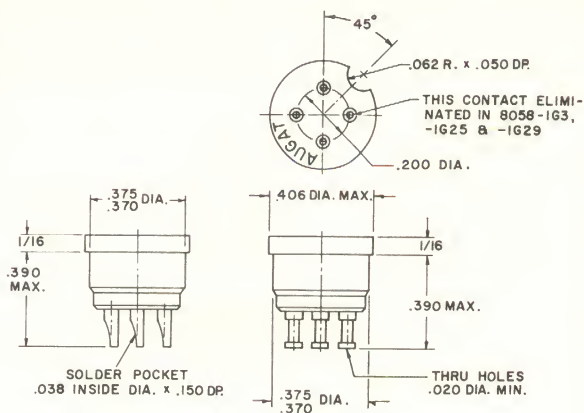
CONTACT — Beryllium copper, nickel and gold plated

8058-1G3 and -1G4

INSULATOR — Teflon

CONTACT — Phosphor bronze, nickel and gold plated

Unless otherwise specified tolerance is $\pm .005$.



For recommended chassis cutout see figure 1

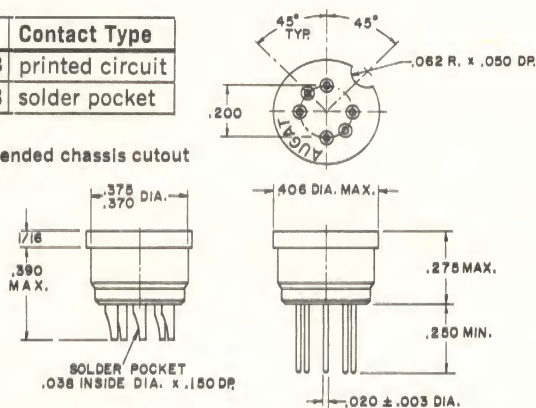
PRINTED CIRCUIT AND PANEL MOUNT PUSH-FIT TYPE

(Closed Entry Contacts)

(cut transistor leads $\frac{3}{16} \pm \frac{1}{32}$)

Part No.	Contact Type
8058-1G33	printed circuit
8058-1G18	solder pocket

For recommended chassis cutout see figure 1



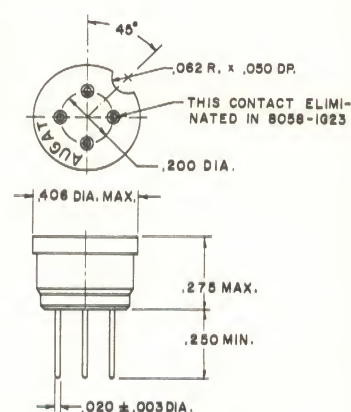
Unless otherwise specified tolerance is $\pm .005$.

PRINTED CIRCUIT TYPE (Closed Entry Contacts)

(cut transistor leads $\frac{3}{16} \pm \frac{1}{32}$)

Part No.	Number of Contacts
8058-1G23	3
8058-1G24	4

Unless otherwise specified tolerance is $\pm .005$.

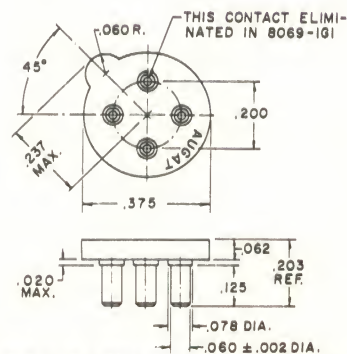


SLIM-LINE, PRINTED CIRCUIT TYPE

(Closed Entry Contacts)

(cut transistor leads $.150 \pm .025$)

Part No.	Number of Contacts
8069-1G1	3
8069-1G2	4



Unless otherwise specified tolerance is $\pm .005$.

MATERIALS (See specifications on page 1)

INSULATOR — Glass epoxy

CONTACT SLEEVE TERMINAL — Brass, nickel and gold plated

INNER CONTACT — Beryllium copper, nickel and gold plated